

Product Name: WIKI4

Catalog No.: 4855

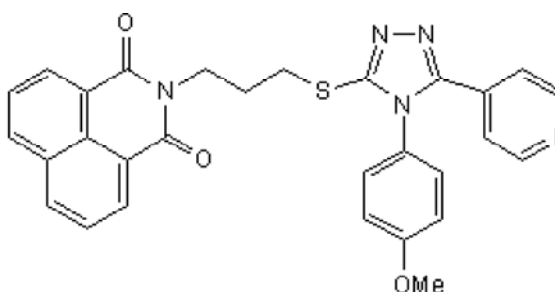
Batch No.: 2

CAS Number: 838818-26-1

IUPAC Name: 2-[3-[[4-(4-Methoxyphenyl)-5-(4-pyridinyl)-4H-1,2,4-triazol-3-yl]thio]propyl]-1H-benz[de]isoquinoline-1,3(2H)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₃N₅O₃S
Batch Molecular Weight: 521.59
Physical Appearance: Cream solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.78	4.44	13.43
Found	66.7	4.49	13.05

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

WIKI4 is an inhibitor of Wnt/ β -catenin signaling ($EC_{50} \sim 75$ nM). Inhibits auto-ADP-ribosylation of tankyrase 2 (TNKS2) ($IC_{50} \sim 15$ nM); prevents the ubiquitination and degradation of axin. WIKI4 inhibits expression of β -catenin target genes in cancer cell lines as well as in human embryonic stem cells (ESC). WIKI4 synthesized to Ancillary Material Grade also available.

Physical and Chemical Properties:

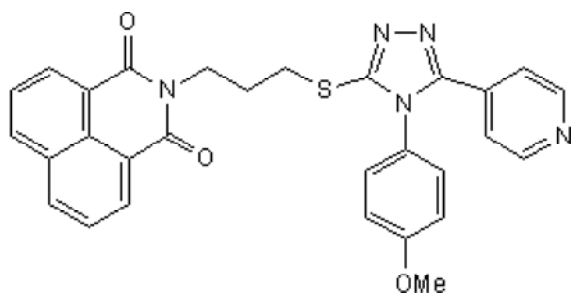
Batch Molecular Formula: $C_{29}H_{23}N_5O_3S$

Batch Molecular Weight: 521.59

Physical Appearance: Cream solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

James *et al* (2012) WIKI4, a novel inhibitor of tankyrase and Wnt/ β -catenin signaling. PLoS One 7 e50457. PMID: 23227175.

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